



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASME SB-163 N08801

**Standard Specification for Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tube**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - ASME SB-163 N08801 Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tube**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**

**Grade Belongs to the Industry - Tube**

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Chromium	Cr %	19.000 - 22.000		
Copper	Cu %	0.500 max.		
Sulphur	S %	0.015 max.		
Titanium	Ti %	0.750 - 1.500		
Iron	Fe %	39.500 max.		
Nickel	Ni %	30.000 - 35.000		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	448 min.
			Yield Strength in Mpa	172 min.
			Elongation in %	30 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N08801	ASTM	USA	Tube
B 407 N08801	ASTM	USA	Pipe and Tube
N08801	UNS	USA	Tube
SB-407 N08801	ASTM	USA	Pipe and Tube
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.